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Volume 2: Renewable Resources

Presented at the 1985 Pressure Vessels and Piping Conference and Exhibition, New Orleans, Louisiana, June 23-26, 1985

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Life Cycle Assessment of Hydrogen Production Via Natural Gas Steam Reforming - Scholar's Choice Edition

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VALENCIA FERNANDA

Biomass, Biofuels, Biochemicals Academic Press

Advances in Ethanol Research and Application / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Ethanol. The editors have built Advances in Ethanol Research and Application / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Ethanol in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Ethanol Research and Application / 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Volume 2: Renewable Resources Elsevier

The book is organized in three parts. Part I shows how the catalytic and electrochemical principles involve hydrogen production technologies. Part II is devoted to biohydrogen production and introduces gasification and fast pyrolysis biomass, dark fermentation, microbial electrolysis and power production from algae. The last part of the book is concerned with the photo hydrogen generation technologies. Recent developments in the area of semiconductor-based nanomaterials, specifically semiconductor oxides, nitrides and metal-free semiconductors based nanomaterials for photocatalytic hydrogen production are extensively discussed in this part.

Presented at the 1985 Pressure Vessels and Piping Conference and Exhibition, New Orleans, Louisiana, June 23-26, 1985 Springer Science & Business Media

Marine Bioenergy: Trends and Developments features the latest findings of leading scientists from around the world. Addressing the key aspects of marine bioenergy, this state-of-the-art text: Offers an introduction to marine bioenergy Explores marine algae as a source of bioenergy Describes biotechnological techniques for biofuel production Explains the production of bioenergy, including bioethanol, biomethane, biomethanol, biohydrogen, and biodiesel Covers bioelectricity and marine microbial fuel cell (MFC) production from marine algae and microbes Discusses marine waste for bioenergy Considers commercialization and the global market Marine Bioenergy: Trends and Developments provides a valuable springboard for marine bioenergy research and development, making the book a must-have reference for scientists, engineers, and students.

Design and Management of Manufacturing Systems ScholarlyEditions

The aim of this major reference work is to provide a first point of entry to the literature for the researchers in any field relating to structural integrity in the form of a definitive research/reference tool which links the various sub-disciplines that comprise the whole of structural integrity. Special emphasis will be given to the interaction between mechanics and materials and structural integrity

applications. Because of the interdisciplinary and applied nature of the work, it will be of interest to mechanical engineers and materials scientists from both academic and industrial backgrounds including bioengineering, interface engineering and nanotechnology. The scope of this work encompasses, but is not restricted to: fracture mechanics, fatigue, creep, materials, dynamics, environmental degradation, numerical methods, failure mechanisms and damage mechanics, interfacial fracture and nano-technology, structural analysis, surface behaviour and heart valves. The structures under consideration include: pressure vessels and piping, off-shore structures, gas installations and pipelines, chemical plants, aircraft, railways, bridges, plates and shells, electronic circuits, interfaces, nanotechnology, artificial organs, biomaterial prostheses, cast structures, mining... and more. Case studies will form an integral part of the work.

Handbook of Clean Energy Systems, 6 Volume Set CRC Press

In the last decade, the attention paid to the environmental protection has generated a considerable interest towards the development of new energy carriers and green energy production methods. Hydrogen as an energy carrier becomes a potential important source of energy due to its neutral environmental impact. However, its production, transformation and purification, presents a challenge in the so called hydrogen economy. Current Trends and Future Developments on (Bio-) Membranes gives a comprehensive review on the present state of the art of the hydrogen production and purification using new and alternative technologies stressing green processes and environment protection. The book covers green processes, renewable feedstocks utilization and membrane reactor technology for hydrogen production in line with new process intensification strategy. The book is divided in four sections, ie fundamentals of hydrogen generation, its impact on environmental issue, new applications involving hydrogen and its storage and distribution. The main scope of this book is to offer a new horizon on hydrogen generation and utilization. It stresses the role of new technologies for hydrogen generation, including the "micro-reactors technology for portable applications , their combination with high temperature fuel cells, the role of gas-separation for both hydrogen purification and CO2 sequestration, the exploitation of renewable sources (biogas, bioethanol and other renewables feedstocks) in reforming processes useful to generate hydrogen, membrane and membrane reactor technology as well as membrane bio-reactors etc. Presents process intensification and commercialization of new and alternative hydrogen generation technologies Relates new hydrogen production methods to their environmental impact Outlines the fundamentals of hydrogen generation Includes new developed technologies for hydrogen transport and storage

Advances in Power-to-X: Processes, Systems, and Deployment Elsevier

1. Introduction: The current relevance of fuel cells and hydrogen; 2. Hydrogen; 3. Fuel cells; 4. Systems; 5. Implementation scenarios; 6. Social implications; 7. Conclusion: a conditional outcome; References; Index.

Fossil Energy Update Elsevier

These proceedings assemble almost 210 of the papers presented or displayed as posters at the 5th International Conference on Greenhouse Gas Control Technologies (GHGT-5) over the three days.

These papers outline scientific ideas and related contributions to the new scientific, technical and political discipline of greenhouse gas control.

Membranes for Clean and Renewable Power Applications Life Cycle Assessment of Hydrogen Production Via Natural Gas Steam Reforming
Life Cycle Assessment of Hydrogen Production Via Natural Gas Steam Reforming
 A life cycle assessment of hydrogen production via natural gas steam reforming was performed to examine the net emissions of greenhouse gases as well as other major environmental consequences. LCA is a systematic analytical method that helps identify and evaluate the environmental impacts of a specific process or competing processes.
Life Cycle Assessment of Hydrogen Production Via Natural Gas Steam Reforming - Scholar's Choice Edition

This book deals with exergy and its applications to various energy systems and applications as a potential tool for design, analysis and optimization, and its role in minimizing and/or eliminating environmental impacts and providing sustainable development. In this regard, several key topics ranging from the basics of the thermodynamic concepts to advanced exergy analysis techniques in a wide range of applications are covered as outlined in the contents. - Comprehensive coverage of exergy and its applications - Connects exergy with three essential areas in terms of energy, environment and sustainable development - Presents the most up-to-date information in the area with recent developments - Provides a number of illustrative examples, practical applications, and case studies - Easy to follow style, starting from the basics to the advanced systems

Marine Bioenergy John Wiley & Sons

Ethanol: Science and Engineering reviews the most significant research findings in both ethanol production and utilization. The book's contents are divided into four parts, beginning with an explanation of the chemical reactions involved during the conversion of ethanol to more complex molecules. Other sections focus on various processes and their potential use, the modelling of various chemical processes, and finally, their economic and environmental impact. The book includes the most advanced production processes, new technologies, applications, and the economic role ethanol plays today. The book will be great for researchers and engineers in both academic and industry. The idea of using ethanol as a fuel is one of the most promising options in the arena of alternative fuels because of its versatile use as an intermediate for producing hydrogen via reforming reactions, direct fuel cells feed and/or its production from biomass, which is also considered a sustainable feedstock. Reviews ethanol production methods from biomass Discusses the potential of ethanol as a viable future fuel Includes hydrogen production methods using ethanol in catalytic reforming processes Outlines the various technologies based on ethanol Includes ethanol powered fuel cells

Mechanics Scholar's Choice

This proceedings volume gathers selected papers presented at the Chinese Materials Conference 2017 (CMC2017), held in Yinchuan City, Ningxia, China, on July 06-12, 2017. This book covers a wide range of material surface science, advanced preparation and processing technologies of materials, high purity materials, silicon purification technology, solidification science and technology, performance and structure safety of petroleum tubular goods and equipment materials, materials genomes, materials simulation, computation and design. The Chinese Materials Conference (CMC) is the most important serial conference of the Chinese Materials Research Society (C-MRS) and has

been held each year since the early 1990s. The 2017 installment included 37 Symposia covering four fields: Advances in energy and environmental materials; High performance structural materials; Fundamental research on materials; and Advanced functional materials. More than 5500 participants attended the congress, and the organizers received more than 700 technical papers. Based on the recommendations of symposium organizers and after peer reviewing, 490 papers have been included in the present proceedings, which showcase the latest original research results in the field of materials, achieved by more than 300 research groups at various universities and research institutes.

Proceedings of the Fifth International Conference on Greenhouse Gas Control

Technologies Woodhead Publishing

Handbook of Materials Failure Analysis: With Case Studies from the Chemicals, Concrete and Power Industries provides an in-depth examination of materials failure in specific situations, a vital component in both developing and engineering new solutions. This handbook covers analysis of materials failure in the chemical, power, and structures arenas, where the failure of a single component can result in devastating consequences and costs. Material defects, mechanical failure as a result of improper design, corrosion, surface fracture, and other failure mechanisms are described in the context of real world case studies involving steam generators, boiler tubes, gas turbine blades, welded structures, chemical conversion reactors and more. This book is an indispensable reference for engineers and scientists studying the mechanisms of failure in these fields. Introduces readers to modern analytical techniques in materials failure analysis Combines foundational knowledge with current research on the latest developments and innovations in the field Includes many compelling case studies of materials failure in chemical processing plants, concrete structures, and power generation systems

Energy Research Abstracts Academic Press

Increase in green, renewable and sustainable energy demand due to higher environmental impacts (e.g. Greenhouse gases emissions, climate change, etc.) on consumption of fossil fuel resource put down an extra pressure on government, researchers and industrialists. Among several available biofuel options, biohydrogen is considered as one of the best environmentally clean fuel and a strong candidate to fulfil the future demand of sustainable energy resource. Although, biohydrogen production technology and its use as a fuel is still in infancy stage. Selection of most sustainable production pathway, increase in production upto industrial scale and cost efficiency are some issue still persist with the biohydrogen research. "Biohydrogen Production: Sustainability of Current Technology and Future Perspective" is giving an insight for the sustainable production of biohydrogen at industrial scale. The process of biohydrogen production is complex and to opt the best suited production system for industrial scale is a frantic task. This book will provide an in depth information on all available technologies for biohydrogen production and feedstock options to choose upon. This book is also providing information on present status of the research in the field and possibility to change future fuel economy in to biohydrogen economy. Experts views provided in the chapters by renowned researchers from all over the globe in the field of biohydrogen research made this book a cornucopia of present research and future perspective of biohydrogen. This book is targeted at the researchers working on biohydrogen as well as the bioenergy scientist planning to

move towards biohydrogen research. This book will provide a platform for motivation of researchers and industrialists for innovative ideas and thoughts to bring biohydrogen production at industrial scale.

EXERGY John Wiley & Sons

Alkanes—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Alkanes. The editors have built *Alkanes—Advances in Research and Application: 2012 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Alkanes in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Alkanes—Advances in Research and Application: 2012 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Energy from Waste Earthscan

Hydrogen energy has the potential to make a major contribution to the resolution of pressing social and environmental problems such as carbon emissions, energy security and local air pollution. Yet why isn't the global energy system switching to hydrogen?

Presented at the 1990 Pressure Vessels and Piping Conference, Nashville, Tennessee, June 17-21, 1990 CRC Press

The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of literature sources, the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems. The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth, and environmental, social and economic impacts are also addressed. Topics covered include: Volume 1 - Renewable Energy: Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy. Volume 2 - Clean Energy Conversion Technologies: Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration. Volume 3 - Mitigation Technologies: Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy. Volume 4 - Intelligent Energy Systems: Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern Electrical Systems; Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement. Volume 5 - Energy Storage: Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems. Volume 6 - Sustainability of Energy Systems: Sustainability Indicators, Evaluation Criteria,

and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction. Key features: Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields. Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription.

Biohydrogen Frontiers Media SA

Conversion of waste into value-added products such as energy transforms a potential environmental problem into a sustainable solution. *Energy from Waste: Production and Storage* focuses on the conversion of waste from various sources for use in energy production and storage applications. It provides the state-of-the-art in developing advanced materials and chemicals for energy applications using wastes and discusses the various treatment processes and technologies. Covers synthesis of usable materials from various types of waste and their application in energy production and storage Presents an overview and applications of wastes for green energy production and storage Provides fundamentals of electrochemical behavior and understanding of energy devices such as fuel cells, batteries, supercapacitors, and solar cells Elaborates on advanced technologies used to convert waste into green biochemical energy This work provides new direction to scientists, researchers, and students in materials and chemical engineering and related subjects seeking to sustainable solutions to energy production and waste management.

Hydrogen Production Technologies CSIRO PUBLISHING

Containing a collection of 29 papers presented at the 2002 AIChE Ammonia Safety Symposium, this volume covers safe manufacture, transportation and storage of ammonia and other chemicals, as well as actual case histories and industry needs.

Biohydrogen Production: Sustainability of Current Technology and Future Perspective

Amer Inst of Chemical Engineers

In a multidisciplinary field such as energy, Hydrogen and Fuel Cells stands out by covering the entire width of hydrogen production and usage technologies, giving detailed descriptions of not just one but the range of very different fuel cells that have been developed or are under development. In one volume, respected experts Bent Sorensen and Giuseppe Spazzafumo provide all the basic scientific theory underlying hydrogen and fuel cell technologies, but at the same time present applications and sustainable integration into society in a way accessible to a broad range of people working in this field, whether in technical, economic or management roles. The third edition reflects both recently emerged technologies and the market penetration of the most promising technologies, and

it gives an appraisal of how far fuel cell technology may go in the future, considering current challenges and economic trends. This new edition has updated and expanded content on hydrogen storage and transmission, molten carbonate fuel cells, PEM fuel cells, solid oxide fuel cells, biofuel cells, including microbial fuel cells, applications in transportation and power plants, future scenarios and life-cycle assessment. It is ideal for researchers and professionals in the field of energy, and renewable energy in particular, both in academia and industry. It is also useful to lecturers and graduate students in engineering, physics, and environmental sciences, as well as professionals involved in energy or environmental regulation and policy. Gain thorough understanding of the science and applications of hydrogen and a range of different fuel cells, including economic and social aspects of the field Updated sections include hydrogen storage and transportation, biofuel cells, PEM and solid oxide fuel cells, applications in transportation and large scale power generation, and life-cycle assessment

[New Perspectives on Hydrogen Production, Separation, and Utilization](#) Springer

[Biomass, Biofuels and Biochemical: Biohydrogen, Second Edition](#), provides general information, basic data and knowledge on one of the most promising renewable energy sources, including its production and applications. The book describes a green technology for abating environmental crisis and enabling the transformation into a sustainable future. Researchers, students and science enthusiasts alike will appreciate this holistic view of biohydrogen production, which details the

functional mechanisms employed, operational configurations, influencing factors and integration strategies. With 50% more content, this new edition outlines the scaling of processes and features material from experienced international researchers working at the interface of biotechnology and engineering. Hydrogen is an energy carrier and is available in chemically combined forms in water, fossil fuels and biomass. About 95 % of current hydrogen requirements are produced through fossil fuel sources. Being a clean energy source, its future widespread use as a fuel is likely to be in the transportation and distributed power generation sectors. Depicts a holistic view of biohydrogen in a unified approach making it a single point of reference Includes new technologies and perspectives giving up-to-date state-of-the-art information on research and commercialization Provides strategic integrations of acidogenesis with various bioprocesses essential in establishing a circular biorefinery Includes new research findings since the 1st edition appeared, with 50% more content Integrates various subjects including biotechnology, bioengineering, molecular biology, environmental science, etc. Reviews the various topics from a global perspective and an international list of contributors [Emerging Technologies and Applications](#) Springer Science & Business Media

The aim of this book is to investigate and explain the rapid advances in the characterization of high temperature crack growth behaviour which have been made in recent years, with reference to industrial applications. Complicated mathematics has been minimized with the emphasis placed instead on finding solutions using simplified procedures without the need for complex numerical analysis.

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